What is claimed:

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- 1. A method of raising and leveling a settled slab which comprises the steps of:
- (a) mixing a quantity of lime and liquid into a viscous lime5 sludge;
 - (b) cutting a plurality of holes in said settled slab;
 - (c) pumping said lime sludge under said settled slab through said holes;
 - (d) leveling said settled concrete slab by controlling said pumping of said lime sludge pumped under said settled slab; and
 - (e) repairing said plurality of holes in the said slab.
 - 2. A method of raising and leveling a settled slab as in claim 1 wherein said lime sludge is an aqueous solution of an inorganic salt selected from the group consisting of calcium chloride, magnesium chloride, and aluminum sulfate.
 - 3. A method of raising and leveling a settled slab as in claim 1 wherein said slab is stabilized with a mixture of sand and air pumped beneath said slab so as to fill any voids.
 - 4. A method of raising and leveling a settled slab as in claim 3 wherein said plurality of holes are repaired with patch material of similar composition and appearance of said concrete slab.
 - 5. A method of raising and leveling a settled slab as in claim 4 wherein said slab is comprised of concrete.
 - 6. A method of raising and leveling a settled slab which employs

the use of lime sludge as a lifting agent comprising the steps of:

- (a) mixing a quantity of lime and liquid into a viscous lime sludge;
 - (b) cutting a plurality of holes in said settled slab;

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- (c) pumping said lime sludge under said settled slab at high pressure;
- (d) raising and leveling said settled slab by controlling said pumping of said lime sludge pumped under said settled slab;
- (e) pumping a mixture of air and sand beneath said raised and leveled slab; and
 - (f) repairing said plurality of holes in the said slab.
- 7. A method of raising and leveling a settled slab as in claim 6 wherein said mixture of sand and air pumped beneath said slab is used to fill any voids so as to stabilize said slab.
- 8. A method of raising and leveling a settled slab as in claim 7 wherein said mixture of air and sand is pumped under high pressure into said voids along the sides of said raised and leveled slab.
- 9. A method of raising and leveling a settled slab as in claim 8 wherein said plurality of holes are repaired with patch material of substantially the same composition and appearance of said concrete slab.
 - 10. A method of raising and leveling a settled slab as in claim 9

wherein said slab is comprised of concrete. Concrete

11. A method of raising and leveling a settled concrete slab
which employs the use of lime sludge as a lifting agent
comprising the steps of:

- 5 (a) mixing a quantity of lime and liquid into a viscous lime sludge;
 - (b) cutting a plurality of holes in said settled concrete slab;
- (c) pumping said lime sludge under said settled concrete slab at high pressure;
 - (d) leveling said settled concrete slab by controlling said pumping of said lime sludge pumped under said settled concrete slab;
 - (e) cutting a plurality of sand holes in said settled concrete slab;

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- (f) pumping a mixture of air and sand beneath said settled concrete slab; and
- (g) repairing said plurality of holes in the said concrete slab.
- 20 12. A method of raising and leveling a settled concrete slab as in claim 11 wherein said concrete slab is stabilized with a mixture of sand and air pumped beneath said concrete slab into any voids.
 - 13. A method of raising and leveling a settled concrete slab as

in claim 12 wherein said sand and air mixture is pumped into said voids through said sand holes.

14. A method of raising and leveling a settled concrete slab as in claim 13 wherein said plurality of holes are repaired with patch material of substantially the same composition and appearance of said concrete slab.

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15. A method of raising and leveling a settled concrete slab as in claim 14 wherein said plurality of sand holes are repaired patch material of substantially the same composition and appearance of said concrete slab.